

# *Weaving Common Threads*

Reaching out to American Indians and Native Peoples  
of Alaska and the Pacific Islands

GLOBE Train-the-Trainer Workshop  
Northern Arizona University  
Flagstaff, Arizona  
August 6 - 12, 2001

## Basic Protocols Agenda

Reception - Sunday, August 5, 2001

Time	Activity and Location
6:30 pm - 8:30 pm	Traditional Opening Ceremony Welcome <ul style="list-style-type: none"><li>• Introductions</li><li>• Distribution of Teacher's kits</li><li>• Assignment: Atmosphere</li></ul> Location: Havasupai Room - University Union Responsibility: Alfred Teosie, Virgil Masayesva, Ralph Coppola

## Day 1 – Monday, August 6, 2001

Time	Activity and Location
6:45 am	Bus will pick-up participants from the Ameri-Suites hotel and transport to the Inn at NAU for breakfast
7:00 am - 7:59 am	Breakfast Location: The Inn at NAU
7:50 am - 8:00 am	Travel to Workshop site
8:00 am - 9:15 am	Opening Ceremony Workshop Welcome Workshop Objectives, Structure and Logistics Location: Wetlaw Bio/Chem Building, Room 130 Responsibility: Ralph Coppola
9:15 am - 10:00 am	Traditional Ecological Knowledge (TEKs) Location: Wetlaw, Room 130 Responsibility: Dan Wildeat
10:00 am - 10:15 am	Break Location: Wetlaw Lobby
10:15 am - 11:15 am	Overview of GLOBE Introduction to GLOBE Educational Materials (Teacher's guide, GLOBE Science Log, Data Book, etc) Location: Wetlaw, Room 130 Responsibility: Ralph Coppola
11:15 am - 11:30 am	Introduction to computers in GLOBE Location: Wetlaw, Room 130 Responsibility: Carlos French
11:30 am - 11:35 am	Introduction to thermometer activity Location: Wetlaw, Room 130 Responsibility: Ralph Coppola
11:35 am - 1:00 pm	Lunch (includes thermometer activity) Location: The Inn at NAU
1:00 pm - 1:10 pm	Wrap-up of Thermometer Activity Location: Wetlaw, Room 130 Responsibility: Ralph Coppola
1:10 pm - 1:55 pm	"Just Passing Through" Learning Activity Location: Wetlaw, Room 130 Responsibility: Elissa Levine, Cindy Henzel
1:55 pm - 2:30 pm	Intro to GLOBE Science and Earth as a System (video, poster) Location: Wetlaw, Room 130 Responsibility: Christos Michalopoulos
2:30 pm - 2:45 pm	Where and When - Intro to GPS and LUT Location: Wetlaw, Room 130 Responsibility: Gary Randolph
2:45 pm - 3:00 pm	Break Location: Wetlaw Lobby

Time	Activity and Location
3:00 pm - 6:00 pm	<b>Atmosphere</b> <ul style="list-style-type: none"> <li>• Significance of the Atmosphere in Traditional Ways of Knowing</li> <li>• Introduction to the GLOBE Atmosphere Protocols</li> <li>• <b>Protocols</b> (field site) <ul style="list-style-type: none"> <li>• GPS</li> <li>• Soil Temperature and Moisture</li> <li>• Cloud Type and Cover</li> <li>• Max. Min. and Current Temperature</li> <li>• Liquid and Solid Precipitation w/ pH</li> </ul> </li> <li>• <b>Data Collection</b> <ul style="list-style-type: none"> <li>• GLOBE Data Book</li> <li>• GLOBE Science Log</li> </ul> </li> <li>• <b>Implementation</b> <ul style="list-style-type: none"> <li>• Strategies for implementation</li> </ul> </li> </ul> <b>Location: Wetraw, Room 130 and Outside</b> <b>Responsibility: Jonas Ramoth, Gary Randolph, Christos Michalopoulos</b> <b>Materials: GLOBE Data Book</b> <b>GLOBE Science Log</b> <b>Cloud Chart</b> <b>Atmosphere section</b>
6:00 pm - 6:15 pm	<b>Regroup and Reflect</b> <ul style="list-style-type: none"> <li>• Implementation Plan Presentations</li> <li>• Learning Activity Presentations</li> </ul> <b>Location: Wetraw, Room 130</b> <b>Responsibility: Ralph Coppola</b>
<b>Day 2 - Tuesday, August 7, 2001</b>	
Time	Activity and Location
6:45 am	Bar will pick-up participants from the Ameri-Suites hotel and transport to the Inn at NAU for breakfast
7:00 am - 7:30 am	<b>Breakfast</b> <b>Location: The Inn at NAU</b>
7:50 am - 8:00 am	Travel to Workshop site
8:00 am - 8:15 am	<b>Opening Ceremony</b> <b>Questions and Answers</b> <b>Location: Wetraw, Room 130</b>

Time	Activity and Location
8:15 am - 10:00 am	<b>Atmosphere (Con't)</b> <ul style="list-style-type: none"> <li>• Data Entry</li> <li>• Student Inquiry               <ul style="list-style-type: none"> <li>• Looking at your data</li> <li>• Earth as a System</li> </ul> </li> </ul> <b>Location:</b> Liberal Arts, Room 227 <b>Responsibility:</b> Gary Randolph, Christos Michalopoulos, Carlos French <b>Materials:</b> GLOBE Data Book GLOBE Science Log
10:00 am - 10:15 am	Break
10:15 am - 12:00 pm	<b>Location: Wetlaw Lobby</b> <b>GLOBE Student Inquiry</b> <ul style="list-style-type: none"> <li>• Exploring and Knowing the Natural World in Traditional Ways</li> <li>• Introduction/Philosophy</li> </ul> <b>Location: Wetlaw, Room 130</b> <b>Responsibility:</b> Phyllis Hogan, Cyndy Henzel <b>Materials:</b> GLOBE Data Book GLOBE Science Log
12:00 pm - 1:00 pm	Lunch
1:00 pm - 2:00 pm	<b>Location: The Inn at NAU</b> <b>GLOBE Student Inquiry (Con't)</b> <ul style="list-style-type: none"> <li>• Looking at Data</li> <li>• Question Discussion</li> <li>• Curried Investigation</li> <li>• Discussion of Results</li> </ul> <b>Location: Liberal Arts, Room 227</b> <b>Responsibility:</b> Cyndy Henzel <b>Materials:</b> GLOBE Data Book GLOBE Science Log
2:00 pm - 3:00 pm	<b>Hydrology</b> <ul style="list-style-type: none"> <li>• Significance of Hydrology in Traditional Ways of Knowing</li> </ul> <b>Location: Biology Bldg., Room 145 and Outside</b> <b>Responsibility:</b> Vernon Masaveya
3:00 pm - 3:15 pm	Break
	<b>Location: Wetlaw, Room 130</b>

Time	Activity and Location
3:15 pm - 6:00 pm	<b>Hydrology (Cont'd)</b> <ul style="list-style-type: none"> <li>• Introduction to the GLOBE Hydrology Protocols</li> <li>• Calibration</li> <li>• <b>Protocols (Field Work)</b> <ul style="list-style-type: none"> <li>• Transparency</li> <li>• Temperature</li> <li>• PH</li> <li>• Salinity</li> <li>• Conductivity</li> </ul> </li> <li>• <b>Data Collection</b> <ul style="list-style-type: none"> <li>• GLOBE Data Book</li> <li>• GLOBE Science Log</li> </ul> </li> </ul> <b>Location:</b> Biology Bldg., Room 145 and Outside <b>Responsibility:</b> Christos Michalopoulos <b>Materials:</b> GLOBE Data Book GLOBE Science Log Hydrology section
6:00 pm - 6:15 pm	Regroup and Reflect <b>Location:</b> Wettaw, Room 130 and Outside <b>Responsibility:</b> Ralph Coppola

**Day 5 - Wednesday, August 8, 2001**

Time	Activity and Location
6:45 am	Bus will pick-up participants from the AmeriSuites hotel and transport to the Inn at NAU for breakfast
7:00 am - 7:56 am	Breakfast <b>Location:</b> The Inn at NAU
7:50 am - 8:00 am	Travel to Workshop site
8:00 am - 8:15 am	Opening Ceremony Questions and Answers <b>Location:</b> Wettaw, Room 130

Time	Activity and Location
8:15 am - 10:30 am	<p>Hydrology (Cont)</p> <ul style="list-style-type: none"> <li>• Data</li> <li>• Data Entry</li> <li>• Student Inquiry</li> <li>• Looking at your Data</li> <li>• Earth as a System</li> <li>• Development of a Hypothesis</li> <li>• Implementation</li> <li>• Strategies for Implementation</li> </ul> <p>Location: Wetraw, Room 145  Responsibility: Christos Michalopoulos  Materials: GLOBE Data Book  GLOBE Science Log</p>
10:30 am - 10:45 am	Break
10:45 am - 12:00 pm	<p>Location: Wetraw Lobby</p> <p>Soil I</p> <ul style="list-style-type: none"> <li>• Significance of the Soil in Traditional Ways of Knowing</li> <li>• Introduction to the GLOBE Soil Protocols</li> </ul> <p>Location: Biology Bldg, Room 146  Responsibility: Joe Medicine Crow, Elissa Levine  Materials: GLOBE Data Book  GLOBE Science Log  Soil section</p>
12:00 pm - 1:00 pm	Lunch
1:00 pm - 3:00 pm	<p>Location: The Inn at NAU</p> <p>Soil I (Cont)</p> <ul style="list-style-type: none"> <li>• Protocols (field Work)</li> <li>• Soil Characterization</li> <li>• Bulk Density Sampling</li> <li>• Data Collection</li> <li>• GLOBE Data Book</li> <li>• GLOBE Science Log</li> <li>• Implementation</li> <li>• Strategies for implementation</li> </ul> <p>Location: Biology Bldg, Room 146 and Outside  Responsibility: Elissa Levine  Materials: GLOBE Data Book  GLOBE Science Log  Soil section</p>
3:00 pm - 3:15 pm	Break
	Location: Wetraw Lobby

Time	Activity and Location
3:15 pm - 6:00 pm	<b>Land Cover</b> <ul style="list-style-type: none"> <li>• Significance of Land Cover in Traditional Ways of Knowing</li> <li>• Introduction to the GLOBE Land Cover Protocols</li> <li>• Remote Sensing (video and slides)</li> <li>• MUC</li> <li>• Manual Mapping</li> <li>• Introduction to Land Cover Sample sites</li> </ul> <b>Location: Wetlaw, Room 130</b> <b>Responsibility: Robert Marie, Gary Randolph</b> <b>Materials: GLOBE Data Book</b> GLOBE Science Log Land Cover section MUC Field Guide
6:00 pm - 6:15 pm	Regroup and Reflect <b>Location: Wetlaw, Room 130</b> <b>Responsibility: Ralph Coppola</b>

**Day 4 - Thursday, August 9, 2001**

Time	Activity and Location
6:45 am	Bus will pick-up participants from the Ameri-Suites hotel and transport to the Inn at NAU for breakfast
7:00 am - 7:50 am	Breakfast <b>Location: The Inn at NAU</b>
7:50 am - 8:00 am	Travel to Workshop site
8:00 am - 6:15 am	Opening Ceremony Questions and Answers <b>Location: Wetlaw, Room 130</b>

Time	Activity and Location
8:15 am - 12:00 pm (includes break)	<p><b>Land Cover (Cont'd)</b></p> <ul style="list-style-type: none"> <li>• Protocols (Field Work)</li> <li>• Land Cover sample sites</li> <li>• Data Collection               <ul style="list-style-type: none"> <li>• GLOBE Data Book</li> <li>• GLOBE Science Log</li> </ul> </li> <li>• Data Entry</li> <li>• Student Inquiry               <ul style="list-style-type: none"> <li>Looking at your data</li> <li>Accuracy Assessment</li> </ul> </li> <li>• Earth as a System</li> <li>• Implementation               <ul style="list-style-type: none"> <li>• Strategies for implementation</li> </ul> </li> <li>• Phenology               <ul style="list-style-type: none"> <li>• Green-up/Green-down</li> </ul> </li> </ul> <p><b>Location:</b> Wettaw, Room 130 <b>and Outside</b></p> <p><b>Responsibility:</b> Gary Randolph</p> <p><b>Materials:</b> GLOBE Data Book GLOBE Science Log MUC Field Guide Clinometer Densimeter Land Cover section</p>
12:00 pm - 1:00 pm	<p>Lunch</p> <p><b>Location:</b> The Inn at NAT</p>
1:00 pm - 3:45 pm	<p><b>Dry-Land Farming (Earth as a System)</b></p> <p><b>Location:</b> Wettaw, Room 130</p> <p><b>Responsibility:</b> Donald Nelson</p>



Time	Activity and Location
1:45 pm - 4:30 pm	<b>Soil II</b> <ul style="list-style-type: none"> <li>• Lab Work <ul style="list-style-type: none"> <li>• pH</li> <li>• Bulk Density</li> <li>• Gravimetric Soil Moisture</li> </ul> </li> <li>• Data Collection <ul style="list-style-type: none"> <li>• GLOBE Data Book</li> <li>• GLOBE Science Log</li> </ul> </li> <li>• Data <ul style="list-style-type: none"> <li>• Data Entry</li> </ul> </li> <li>• Student Inquiry <ul style="list-style-type: none"> <li>• Looking at your data</li> <li>• Earth as a System</li> </ul> </li> <li>• Implementation <ul style="list-style-type: none"> <li>• Strategies for implementation</li> </ul> </li> </ul> <b>Location: Biology Bldg., Room 146 and Outside</b> <b>Responsibility: Elissa Levine</b> <b>Materials: GLOBE Data Book</b> <b>GLOBE Science Log</b> <b>Soil section</b>
4:30 pm - 5:30 pm	Work on learning activity and implementation presentations
5:30 pm - 5:45 pm	Regroup and Reflect
	<b>Location: Wettaw, Room 130</b> <b>Responsibility: Ralph Coppola</b>

#### Day 5 - Friday, August 10, 2001

Time	Activity and Location
6:45 am	Bus with pick-up participants from the Arden Suites hotel and transport to the Inn at NAU for breakfast
7:00 am - 7:50 am	Breakfast <b>Location: The Inn at NAU</b>
7:50 am - 8:00 am	Travel to Wetshap site
8:00 am - 8:15 am	Opening Ceremony
	Questions and Answers
	<b>Location: Wettaw, Room 130</b>

Time	Activity and Location
8:15 am - 12:00 pm (includes break)	<p><b>Computers in GLOBE</b></p> <ul style="list-style-type: none"> <li>• Role of computers in GLOBE</li> <li>• Administrative uses</li> <li>• Self-paced activity</li> </ul> <p>Location: Liberal Arts Room 227</p> <p>Responsibility: Carlos French</p>
12:00 pm - 1:00 pm	<p><b>Land Cover (Con't)</b></p> <ul style="list-style-type: none"> <li>• Protocols (Field Work)</li> <li>• Land Cover sample sites</li> <li>• Data Collection               <ul style="list-style-type: none"> <li>• GLOBE Data Book</li> <li>• GLOBE Science Log</li> </ul> </li> <li>• Data Entry</li> <li>• Student Inquiry               <ul style="list-style-type: none"> <li>Looking at your data: Accuracy Assessment</li> </ul> </li> <li>• Earth as a System</li> <li>• Implementation               <ul style="list-style-type: none"> <li>• Strategies for implementation</li> <li>• Phenology                   <ul style="list-style-type: none"> <li>• Green-up/Green-down</li> </ul> </li> </ul> </li> </ul> <p>Location: Wetlaw Room 130 and Outside</p> <p>Responsibility: Gary Randolph</p> <p>Materials: GLOBE Data Book GLOBE Science Log MUC Field Guide Clinometer Densimeter Land Cover section</p>
Lunch	
1:00 pm - 4:00 pm	<p>Location: The Inn at NAU</p>

Time	Activity and Location
1:00 pm - 5:00 pm	<b>Fund Raising</b> <ul style="list-style-type: none"> <li>• Funding opportunities</li> <li>• MLE SPIN</li> <li>• RSI (NSF Program)</li> </ul> <b>Location:</b> Wettaw, Room 130 <b>Responsibility:</b> Ralph Coppola, James Harrington, Mansel Nelson <b>Adjourn for Banquet</b> <b>Location:</b> Wettaw, Room 130 <b>Responsibility:</b> Ralph Coppola
5:00 pm - 5:15 pm	<b>Banquet</b> Group photo Learning Activity Presentations <b>Location:</b> Ashurst Hall in Old Main
6:15 pm	

## Day 6 - Saturday, August 11, 2006

Time	Activity and Location
7:45 am	Bus will pick-up participants from the Ameri-Suites hotel and transport to the Wettaw Lobby for breakfast
8:00 am - 8:50 am	<b>Breakfast</b> <b>Location:</b> Wettaw lobby
8:50 am - 9:00 am	<b>Travel to Workshop site</b>
9:00 am - 9:15 am	<b>Opening Ceremony</b> Questions and Answers <b>Location:</b> Wettaw, Room 130
9:15 am - 10:15 am	<b>Earth Systems and Navajo Pedagogy</b> <b>Location:</b> Wettaw, Room 130
10:15 am - 11:00 am	<b>Responsibility: Steve Semken</b> GLOBE Program Evaluation <b>Location:</b> Wettaw, Room 130 <b>Responsibility: Ralph Coppola</b>
11:00 am - 11:15 am	<b>Break</b>
11:15 am - 12:00 pm	<b>Location: Wettaw, Room 130</b> Building Learning Communities <b>Location:</b> Wettaw, Room 130 <b>Responsibility: Ralph Coppola</b>
12:00 pm - 1:00 pm	<b>Lunch</b>
1:00 pm - 1:45 pm	<b>Location: Wettaw lobby</b> Mechanics of Partner Implementation <b>Location:</b> Wettaw, Room 130 <b>Responsibility: Carol Conroy</b>
1:45 pm - 3:00 pm	<b>Presentations: Implementation Plan</b> <b>Location:</b> Wettaw, Room 130 <b>Responsibility: Participant groups</b>

Time	Activity and Location
3:00 pm - 3:30 pm	Break - Workshop evaluations Location: Wetfaw lobby
3:30 pm - 4:30 pm	Graduation Traditional Closing Ceremony Location: Wetfaw, Room 136

## Day 7 - Sunday, August 12, 2001

Time	Activity and Location
7:45 am	Bus will pick-up participants from the Amen-Suites hotel and transport to the Inn at NAU for breakfast
8:00 am - 8:50 am	Breakfast Location: Wetfaw lobby
8:50 am - 10:30 am	Travel by bus to Grand Canyon
10:30 am - 11:00 am	Opening Ceremony Location: The Grand Canyon
11:00 am - 12:00 pm	Protocol Practicum - stations Combining Traditional observations and GLOBE Protocols Location: Yavapai Observation Station at the Grand Canyon
12:00 pm - 1:00 pm	Lunch Location: The Grand Canyon
1:00 pm - 2:30 pm	Protocol Practicum - stations (Cont) Review of data Presentation on the Significance of the Grand Canyon from a Traditional Perspective Responsibility: Rex Tillous Presentation on the Educational Significance of the Grand Canyon Responsibility: Jacob Fulton Location: Mather Amphitheatre at the Grand Canyon
2:30 pm - 4:00 pm	Free time to explore the Canyon area Location: The Grand Canyon
4:00 pm - 5:30 pm	Travel by bus to Northern Arizona University

Final corrected version: August 11, 2001

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**Reaching out to American Indians and Native Peoples  
 of Alaska and the Pacific Islands**

**A GLOBE Train-the-Trainer Workshop for  
 Tribal Colleges  
 Northern Arizona University  
 Flagstaff, Arizona**

**August 5-12, 2001**

**Participants**

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